

TN
24
C3
A3
no. 52

CALIFORNIA. DEPT. OF NATURAL
RESOURCES. DIVISION OF MINES.

BULLETIN.
no. 52

THIS BOOK IS DUE ON THE LAST DATE
STAMPED BELOW

JUN 29 '84

AN INITIAL FINE OF 25 CENTS

WILL BE ASSESSED FOR FAILURE TO RETURN THIS BOOK
ON THE DATE DUE. THE PENALTY WILL INCREASE TO
50 CENTS ON THE FOURTH DAY AND TO \$1.00 ON THE
SEVENTH DAY OVERDUE.



THE LIBRARY
OF
THE UNIVERSITY
OF CALIFORNIA
DAVIS

Call Number:

164907

California. Dept. of
natural resources. Di-
vision of mines.

TN21
C3
A3
no. 52

California

PHYSICAL
SCIENCES
LIBRARY

TN24
C3
A3
no. 52

LIBRARY
UNIVERSITY OF CALIFORNIA
DAVIS

164907

CITY OF CALIFORNIA, DAVIS
State Mining Bureau
Bulletin 52

CARTER

FERRY BUILDING.

SHOWING THE MINERAL PRODUCTION OF

COMPILED BY DAVID H. WALKER
(FROM DIRECT RETURNS BY POST)

PRODUCTS.	1887.		1888.		1889.		1890.		1891.		1892.		1893.		1894.		1895.		1896.		1897.		1898.
	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.
Antimony.....tons	75	\$15,500	100	\$20,000									50	\$2,250	150	\$6,000	33	\$1,485	17	\$2,320	20	\$3,500	40
Asbestos.....tons	30	1,800	30	1,800	30	\$1,800	71	\$4,260	66	\$3,960	30	\$1,830	50	2,500	50	2,250	25	1,000					10
Asphalt.....tons	4,000	16,000	3,100	39,500	3,000	30,000	3,000	30,000	4,000	40,000	7,550	75,500	9,150	161,250	11,698	233,800	25,525	170,500	20,914	362,590	22,697	404,350	25,690
Bismuth.....tons																							
Bituminous Rock...tons	36,000	160,000	50,000	257,000	40,000	170,000	40,000	160,000	39,962	154,164	24,000	72,000	32,000	192,036	31,214	115,193	38,921	121,586	49,456	122,500	45,470	128,173	46,836
Borax.....lbs.	2,029,380	116,689	2,809,088	196,636	1,939,650	145,473	6,402,034	480,152	8,533,337	640,000	11,050,495	838,787	7,910,563	593,292	11,540,099	807,807	11,918,000	595,900	13,508,000	675,400	16,000,000	1,080,000	16,600,000
Cement.....bbbls.									5,000	15,000	5,000	15,000			8,000	21,600	16,383	32,556	9,500	28,250	18,000	66,000	50,000
Chrome.....tons	3,400	40,000	1,500	20,000	2,000	30,000	3,599	53,985	1,372	20,580	1,500	22,500	3,319	49,785	3,680	39,980	1,740	16,795	786	7,775			
Clay—Brick.....M.													103,900	801,750	81,675	457,125	131,772	672,360	24,000	524,740	97,468	563,240	100,102
Clay—Pottery.....tons	75,000	37,500	75,000	37,500	75,000	37,500	100,000	50,000	100,000	50,000	100,000	50,000	24,856	67,284	28,475	35,073	37,660	39,685	41,907	62,900	24,592	30,290	28,947
Coal.....tons	50,000	150,000	95,000	380,000	121,280	288,232	110,711	283,019	93,301	204,902	85,178	209,711	72,603	167,555	59,887	139,862	79,858	193,790	70,649	161,335	87,449	196,255	143,045
Copper.....lbs.	1,600,000	192,000	1,570,021	235,303	151,505	18,180	23,347	3,502	3,397,455	424,675	2,980,944	342,808	239,682	21,571	738,594	72,486	225,650	21,901	1,992,844	199,519	13,638,626	1,540,666	21,543,229
Fuller's Earth.....tons																							
Gems.....																							
Gold.....		13,588,614		12,750,000		11,212,913		12,309,793		12,728,869		12,571,900		12,422,811		13,923,281		15,334,317		17,181,562		15,871,401	
Granite.....cu. ft.		150,000		57,000		1,329,018		1,200,000		1,300,000		1,000,000		531,322	312,365	228,816	288,449	224,329	185,261	201,004	339,288	188,024	98,369
Graphite.....tons																							
Gypsum.....tons	2,700	27,000	2,500	25,000	3,000	30,000	3,000	30,000	2,000	20,000	2,000	20,000	1,620	14,280	2,446	24,584	5,158	51,014	1,310	12,580	2,200	19,250	8,100
Infusorial Earth.....tons					39	1,335							50	2,000	51	2,040				5	200		
Iron Ore.....tons													250	2,000	200	1,500							
Lead.....tons	580	52,200	450	38,250	470	35,720	400	36,000	570	49,020	680	54,400	333	24,975	475	23,500	796	49,364	646	38,805	298	20,264	328
Lime and Limestone...		368,750		381,750		416,780		350,000		300,000		300,000		301,276		337,975		457,784		332,617		291,456	
Lithia Mica.....tons																							



MINING BUREAU,

SAN FRANCISCO.

BURY, STATE MINERALOGIST.

N OF CALIFORNIA FOR TWENTY=ONE YEARS.

DAVID H. WALKER, STATISTICIAN.

IRECT RETURNS BY PRODUCERS.)

1898.		1899.		1900.		1901.		1902.		1903.		1904.		1905.		1906.		1907.		Total for 21 Years.		PRODUCTS.		
VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.	QUANTITY.	VALUE.				
\$3,500	40	\$1,200	75	\$13,500	70	\$5,700	50	\$8,350												680	\$79,805	Antimony tons.		
	10	200	30	750	50	1,250	110	4,400					10	\$162	112	\$2,625	70	\$3,500	70	\$3,500	844	37,587	Asbestos tons.	
104,350	25,690	482,175	15,060	308,130	12,575	253,950	21,634	313,219	34,511	\$349,344	41,670	\$503,659	56,187	672,910	40,304	285,290	77,756	777,560	79,718	1,058,400	519,739	6,568,127	Asphalt tons.	
													20	2,400						20	2,400			Bismuth tons.
28,173	46,836	137,575	40,321	116,097	25,306	71,495	24,052	66,354	33,490	43,411	21,944	53,106	45,280	175,680	24,753	60,436	16,077	45,204	24,122	72,835	729,204	2,494,845	Bituminous Rock, tons.	
80,000	16,000,000	1,153,000	40,714,000	1,139,882	51,674,000	1,013,251	14,442,000	982,380	34,404,000	2,234,994	Crude. 68,860,000	661,400	91,294,000	698,810	92,668,000	1,019,158	116,346,000	1,182,410	106,825,000	1,200,913	767,469,000	17,456,334	Borax lbs.	
66,000	50,000	150,000	60,000	180,000	52,000	121,000	71,800	159,842	171,000	423,600	640,868	963,727	969,538	1,539,807	1,265,553	1,791,916	1,286,000	1,941,250	1,613,563	2,585,577	6,242,205	10,040,125	Cement bbls.	
					140	1,400	130	1,950	315	4,725	150	2,250	123	1,845	40	600	317	2,859	302	6,040	24,013	323,069	Chrome tons.	
563,240	100,102	571,362	125,950	754,730	137,191	905,210	130,766	860,483	169,851	1,306,215	214,403	1,999,546	281,750	1,994,740	286,618	2,273,786	277,762	2,538,848	362,167	3,438,951	2,525,375	19,663,091	Clay—Brick . . . M.	
30,290	28,947	33,747	40,600	42,700	59,636	60,956	55,679	39,144	67,933	74,163	90,972	99,907	84,149	81,952	133,805	130,146	167,267	162,283	160,385	254,454	1,571,863	1,477,184	Clay—Pottery . . . tons.	
196,255	143,045	337,475	160,941	420,109	176,956	535,531	150,724	401,772	88,460	248,622	93,026	265,383	79,062	376,494	46,500	144,500	24,350	61,600	23,734	55,849	1,913,214	5,221,996	Coal tons.	
540,666	21,543,229	2,475,168	23,915,486	3,990,534	29,515,512	4,748,242	34,931,788	5,501,782	27,860,162	3,239,975	19,113,861	2,520,997	29,974,154	3,969,995	16,997,489	2,650,605	28,726,448	5,522,712	32,602,945	6,341,387	291,739,742	44,034,008	Copper lbs.	
			620	12,400	500	3,750	1,000	19,500	987	19,246	250	4,750	500	9,500	1,344	33,000	440	10,500	100	1,000	5,741	118,646	Fuller's Earth . . . tons.	
					500	20,500	500	40,000	510	162,100		110,500		136,000		148,500		497,090		232,642		1,347,332	Gems.	
871,401		15,906,478		15,336,031		15,863,355		16,989,044		16,910,320		16,471,264		19,109,600		19,197,043		18,732,452		16,727,928		321,138,976	Gold.	
188,024	98,369	147,732	128,924	141,070	311,803	295,772	214,943	519,285	257,650	255,239	408,625	678,670	520,687	467,472	228,738	353,837		344,083	399,431	373,376		9,986,049	Granite cu. ft.	
							64	4,480	42	1,680											106	6,160	Graphite tons.	
19,250	3,100	23,600	3,663	14,950	2,522	10,088	3,875	38,750	10,200	53,500	6,914	46,441	8,350	56,592	12,850	54,500	21,000	69,000	8,900	57,700	109,308	698,829	Gypsum tons.	
200									422	2,532	2,703	16,015	6,950	112,282	3,000	15,000	2,430	14,400	2,531	28,948	18,181	194,752	Infusorial Earth, tons.	
																			400	400	850	3,900	Iron Ore tons.	
20,264	328	23,907	360	30,642	520	41,600	360	28,820	175	12,230	55	3,960	62	5,270	266	25,083	169	19,307	164	16,690	8,157	635,007	Lead tons.	
291,456		278,558		343,760		315,231		434,133		460,140		582,268		658,956		878,647		925,887		1,162,417		9,878,385	Lime and Limestone.	
			124	4,600	440	11,000	1,100	27,500	822	31,880	700	27,300	641	25,000	25	276					3,852	127,556	Lithia Mica tons.	
313,087	452,691	369,082	323,590	239,867	360,597	262,570	360,882	312,974	500,920	418,542	225,125	426,173	528,890	414,628	1,440,455	912,502	1,066,184	870,887	1,544,617	1,082,302	9,876,475	7,501,205	Macadam tons.	

Fuller's Earth	tons																							
Gems																								
Gold		13,588,614		12,750,000		11,212,913		12,309,793		12,728,869		12,571,900		12,422,811		13,923,281		15,334,317		17,181,562		15,871,401		
Granite	cu. ft.	150,000		57,000		1,329,018		1,200,000		1,300,000		1,000,000		531,322	312,365	228,816	288,449	224,329	185,261	201,004	339,288	188,024	98,	
Graphite	tons																							
Gypsum	tons	2,700	27,000	2,500	25,000	3,000	30,000	3,000	30,000	2,000	20,000	2,000	20,000	1,620	14,280	2,446	24,584	5,158	51,014	1,310	12,580	2,200	19,250	3
Infusorial Earth	tons					39	1,335							50	2,000	51	2,040				5	200		
Iron Ore	tons													250	2,000	200	1,500							
Lead	tons	580	52,200	450	38,250	470	35,720	400	36,000	570	49,020	680	54,400	333	24,975	475	28,500	796	49,364	646	38,805	298	20,264	
Lime and Limestone		368,750		381,750		416,780		350,000		300,000		300,000		301,276		337,975		457,784		332,617		291,456		
Lithia Mica	tons																							
Macadam	tons													271,500	256,875	441,967	369,438	840,650	700,987	646,646	510,245	487,911	313,087	452
Magnesite	tons	600	9,000	600	9,000	600	9,000	600	9,000	1,500	15,000	1,500	15,000	1,093	10,930	1,440	10,240	2,200	17,000	1,500	11,000	1,143	13,671	1
Manganese	tons	1,000	9,000	1,500	13,500	53	901	386	3,176	705	3,830	300	3,000	270	4,050	523	5,512	880	8,200	518	3,415	504	4,080	
Marble	cu. ft.	5,000		5,000		87,030		80,000		100,000		115,000		40,000	38,441	98,326	14,864	56,566	7,839	32,415	4,102	7,280	8	
Mica	tons																							
Mineral Paint	tons							40	480	22	880	25	750	590	26,795	610	14,140	750	8,425	395	5,540	578	8,165	
Mineral Water	gals.	618,162	144,368	1,112,202	252,990	808,625	252,241	258,722	89,786	334,553	135,959	331,875	162,019	383,179	90,667	402,275	184,481	701,397	291,500	808,843	337,434	1,508,192	345,863	1,429,
Natural Gas	M. cu. ft.				10,000		12,680		33,000		30,000		55,000		68,500		79,072		112,000		111,457		62,657	
Onyx and Travertine		900		900		900		1,500		2,400		1,800		27,000		20,000		12,000		24,000				
Paving Blocks	M.													2,770	96,950	2,517	66,981	2,332	73,338	4,161	77,584	1,711	35,235	1,
Petroleum	bbls.	678,572	1,357,144	690,333	1,380,666	303,220	368,048	307,360	384,200	323,600	401,264	385,049	561,333	470,179	608,092	783,078	1,064,521	1,245,339	1,000,235	1,257,780	1,180,793	1,911,569	1,918,269	2,249,
Platinum	ozs.	100	400	500	2,000	500	2,000	600	2,500	100	500	80	440	75	517	100	600	150	900	162	944	150	900	
Pyrites	tons																							6
Quartz Crystals	lbs.																							
Quicksilver	flasks	33,760	1,425,000	33,250	1,413,125	26,464	1,190,500	22,926	1,203,615	22,904	1,036,386	27,993	1,139,600	30,164	1,108,527	30,416	934,000	36,104	1,337,131	30,765	1,075,449	26,648	993,445	31
Rubble	tons													99,600	199,200	219,933	295,400	414,038	394,952	313,973	329,639	333,212	287,025	724
Salt	tons	28,000	112,000	30,800	92,400	21,000	63,000	8,729	57,085	20,094	90,303	23,570	104,788	50,500	213,000	49,131	140,087	53,031	150,576	64,743	153,244	67,851	157,520	93
Sand—Glass	tons																							
Sand—Quartz	tons																							
Sandstone	cu. ft.	175,000		150,000		175,598		100,000		100,000		50,000		26,314		113,592		35,373		28,379		24,086		
Serpentine	cu. ft.																	4,000	4,000	1,500	6,000	2,500	2,500	
Silver		1,632,003		1,700,000		754,793		1,060,613		953,157		463,602		537,157		297,332		599,789		422,463		452,789		
Slate	squares				4,500	18,089	4,000	24,000	4,000	24,000	3,500	21,000	3,000	21,000	1,800	11,700	1,350	9,450	500	2,500	400	2,800		
Soapstone	tons													400	17,750		25	375						
Soda	tons															1,530	20,000	1,900	47,500	3,000	65,000	5,000	110,000	7
Sulpbur	tons																							
Tin	lbs.							125,289	27,564	162,000	32,400													
Tungsten																								
Zinc																								
Totals		\$19,785,868		\$19,469,320		\$16,681,731		\$18,039,666		\$18,872,413		\$18,300,168		\$18,811,261		\$20,203,294		\$22,844,663		\$24,291,398		\$25,142,441		

					500	20,500	500	40,000	510	162,100		110,500		136,000		148,500		497,090		232,642		1,347,332	Gems.
	15,906,478		15,336,031		15,863,355		16,989,044			16,910,320		16,471,264		19,109,600		19,197,043		18,732,452		16,727,928		321,138,976	Gold.
4	98,369	147,732	128,924	141,070	311,803	295,772	214,943	519,285	257,650	255,239	408,625	678,670	520,687	467,472	228,738	353,837		344,083	399,431	373,376		9,986,049	Granite cu. ft.
							64	4,480	42	1,680											106	6,160	Graphite tons.
0	3,100	23,600	3,663	14,950	2,522	10,088	3,875	38,750	10,200	53,500	6,914	46,441	8,350	56,592	12,850	54,500	21,000	69,000	8,900	57,700	109,308	698,829	Gypsum tons.
0									422	2,532	2,703	16,015	6,950	112,282	3,000	15,000	2,430	14,400	2,531	28,948	18,181	194,752	Infusorial Earth, tons.
																		400	400	850	3,900		Iron Ore tons.
4	328	23,907	360	30,642	520	41,600	360	28,820	175	12,230	55	3,960	62	5,270	266	25,083	169	19,307	164	16,690	8,157	635,007	Lead tons.
5		278,558		343,760		315,231		434,133		460,140		582,268		658,956		878,647		925,887		1,162,417		9,878,385	Lime and Limestone.
			124	4,600	440	11,000	1,100	27,500	822	31,880	700	27,300	641	25,000	25	276					3,852	127,556	Litbia Mica tons.
7	452,691	369,082	323,590	239,867	360,597	262,570	360,883	313,974	500,939	418,548	605,185	436,172	532,690	414,668	1,440,455	942,503	1,066,164	870,887	1,544,617	1,082,302	9,876,475	7,501,205	Macadam tons.
1	1,263	19,075	1,280	18,480	2,252	19,333	4,726	43,057	2,830	20,655	1,361	20,515	2,850	9,298	3,933	16,221	4,032	40,320	6,405	57,720	44,278	393,515	Magnesite tons.
0	440	2,102	295	3,165	131	1,310	425	4,405	870	7,140	1	25	60	900			1	30	1	25	8,663	77,776	Manganese tons.
0	8,050	23,594	9,682	10,550	4,103	5,891	2,945	4,630	19,305	37,616	84,624	97,354	55,401	94,208	73,303	129,450	31,400	75,800	37,512	118,066		1,223,776	Marble cu. ft.
									50	2,500	50	3,800	50	3,000							150	9,300	Mica tons.
5	653	9,698	1,704	20,294	529	3,993	325	875	589	1,533	2,370	3,720	270	1,985	754	4,025	250	1,720	250	1,720	10,704	114,738	Mineral Paint tons.
3	1,429,809	213,817	1,338,537	406,691	2,456,115	268,607	1,555,328	559,057	1,701,142	612,477	2,056,340	558,201	2,430,320	496,946	2,194,150	538,700	1,585,690	478,186	2,924,269	544,016	26,939,725	7,064,006	Mineral Water. gals.
7		74,424		95,000		34,578		92,034		99,443	120,134 M	75,237	144,437	91,035	148,345	102,479	168,175	109,489	169,991	114,759		1,462,844	Natural Gas ... M. cu. ft.
																					91,400		Onyx and Travertine.
5	1,144	21,725	305	7,861	1,192	23,775	1,920	41,075	3,502	112,437	4,854	134,642	3,977	161,752	3,408	134,347	4,203	173,432	4,604	199,347	41,600	1,360,481	Paving Blocks ... M.
9	2,249,088	2,376,420	2,677,875	2,660,793	4,329,950	4,152,928	7,710,315	2,961,102	14,356,910	4,692,189	24,340,839	7,313,271	29,736,003	8,317,809	34,275,701	9,007,820	32,624,000	9,238,020	40,311,171	16,783,943	200,967,931	77,728,860	Petroleum bbls.
	300	1,800	300	1,800			250	3,200	39	468		1,052		1,849	200	3,320	91.46	1,647	300.07	6,255		33,092	Platinum ozs.
	6,000	30,000	5,400	28,620	3,642	21,133	4,578	18,429	17,525	60,306	24,311	94,000	15,043	62,992	15,503	63,958	46,689	146,895	82,270	251,774	220,961	777,107	Pyrates tons.
					4,000	18,000	4,000	17,500				1,968							4,000	10,000		47,468	Quartz Crystals. lbs.
5	31,092	1,188,626	29,454	1,405,045	26,317	1,182,786	26,720	1,285,014	29,552	1,276,524	32,094	1,335,954	28,876	1,086,323	24,655	886,081	19,516	712,334	17,379	663,178	587,049	23,878,643	Quicksilver flasks.
5	724,674	445,395	641,308	547,025	428,690	299,072	169,513	327,063	1,555,076	830,981	1,610,440	1,237,419	1,764,208	1,227,209	1,188,802	774,267	489,208	547,519	744,271	832,713	10,691,946	8,574,879	Rubble tons.
0	93,421	170,855	82,654	149,588	89,338	204,754	126,218	366,376	115,208	205,876	102,895	211,365	95,968	187,300	77,118	141,925	101,650	213,228	88,063	310,967	1,389,982	3,486,237	Salt tons.
			2,000	2,000	2,000	2,000	4,500	15,750	4,500	12,225	7,725	7,525	10,004	12,276	9,257	8,121	9,750	13,375	11,065	8,178	60,783	81,450	Sand—Glass tons.
			1,000	1,500	200	200	500	500													1,700	2,200	Sand—Quartz tons.
6		46,384	56,264	103,384	378,468	254,140	226,741	192,132	212,123	142,506	353,002	585,309	363,487	567,181	302,813	483,268	182,076	164,068	159,573	148,148		3,664,861	Sandstone cu. ft.
0	750	3,000	500	2,000	350	2,000	89	890	512	5,065	99	800	200	2,310			847	1,694	1,000	3,000	12,347	33,259	Serpentine cu. ft.
9		414,055		504,012	(Coining Value.)	1,510,344	(Coining Value.)	1,229,356	(Com'l Value.)	616,412	(Com'l Value.)	517,444	(Com'l Value.)	873,525	(Com'l Value.)	678,494		817,830	1,138,858	751,646		16,786,817	Silver.
0	400	2,800	810	5,900	3,500	26,250	5,100	38,250	4,000	30,000	10,000	70,000	6,000	50,000	4,000	40,000	10,000	100,000	7,000	60,000	73,860	557,739	Slate squares.
							10	119	14	288	219	10,124	228	2,315	300	3,000					1,196	33,971	Soapstone tons.
0	7,000	154,000	10,000	250,000	1,000	50,000	8,000	400,000	7,000	50,000	Crude. 18,000	27,000	12,000	18,000	15,000	22,500	12,000	18,000			101,430	1,232,000	Soda tons.
	2	50																			2	50	Sulphur tons.
																					287,289	59,964	Tin lbs.
																18,800		189,100		120,587		338,487	Tungsten.
																		12,566		10,598		23,164	Zinc.
41		\$27,289,079		\$29,313,460		\$32,622,945		\$34,355,981		\$35,069,105		\$37,759,040		\$43,778,348		\$48,069,227		\$46,776,085		\$55,697,949		\$608,173,442	Totals.

THIS BOOK IS DUE ON THE LAST DATE
STAMPED BELOW

JUN 29 '84

AN INITIAL FINE OF 25 CENTS

WILL BE ASSESSED FOR FAILURE TO RETURN THIS BOOK
ON THE DATE DUE. THE PENALTY WILL INCREASE TO
50 CENTS ON THE FOURTH DAY AND TO \$1.00 ON THE
SEVENTH DAY OVERDUE.

T
THI
OF

164907

Gaylord 
PAMPHLET BINDER
 Syracuse, N. Y.
Stockton, Calif.

UNIVERSITY OF CALIFORNIA, DAVIS

3 1175 01777 0333

